IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Peter J. Brittenham *et al*;   Conf. No.: 3651
Application No.: 09/864,607   Group Art Unit: 2157
Filed: May 23, 2001   Examiner: Hussein A. El Chanti

For: **DYNAMIC UNDEPLOYMENT OF SERVICES IN A COMPUTING NETWORK**

Date: June 22, 2007

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

STATEMENT OF THE SUBSTANCE OF THE INTERVIEW

Sir:

The Applicants sincerely appreciate all courtesies extended during the telephonic interviews of June 18, 2007, and June 21, 2007. In particular, the Applicants appreciate the Examiner's indication that Claims 25-26, 28, 31-44, 47 and 52-55 are allowed. The Applicants also appreciate the Examiner's indication that Claims 56-67 would be allowed if amended by Examiner's amendment as set forth in the Examiner's facsimile of June 18, 2007.

In response, the Applicants authorized the Examiner to proceed with the proposed Examiner's amendment to thereby place the application in condition for allowance. The Applicants also note the following minor correctins to the Examiner's amendment:

1). Claim 56, page 2, line 5 – In the word "effecting", the letters "ing" should be underlined;

2). Claim 57, line 2 – after the word "product" the word "~~embodied~~" (with strike through) should be inserted; and

3). Claim 57, line 9 – The word "deploved" should be "deployed" (with a "y").

A copy of the Examiner's proposed claim amendments with these minor corrections is attached.

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      The Applicants believe that this paper meets all requirements of MPEP Sec. 713.04 relating to The Statement Of The Substance Of The Interview. If any further submission should be required relating to the telephonic interview of June 18, 2007, the Applicants respectfully request that the Examiner contact the undersigned attorney for the Applicants by telephone at (919) 854-1400.

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Respectfully submitted,

Scott C. Hatfield
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Fax Notes:

Attention:
Mr. Scott Hatfield
Proposed Amendment Application 09/864,607

Date and time of transmission: Monday, June 18, 2007 6:01:26 PM
Number of pages including this cover sheet: 05

Proposed Amendments

56. (currently amended) A computer program product for dynamically undeploying services in a computing.network, the computer program product ~~embodied~~ stored on one or more computer-readable storage media ~~and~~ that when executed perform the steps comprising:

~~computer-readable program code that is configured to receive~~ receiving an undeployment trigger for a selected service;

~~computer-readable program code that is configured to determine~~ determining one or more network locations where the selected service is deployed responsive to receiving the undeployment trigger;

~~computer-readable program code that is configured to~~ effecting a dynamic undeployment by programmatically removing the selected service from one or more selected ones of the network locations responsive to receiving the undeployment trigger,

wherein services comprise web services,

~~wherein the computer-readable program code that is configured to receive~~ wherein receiving an undeployment trigger comprises ~~computer-readable program code that is configured to receive~~ receiving an undeployment trigger for a selected web service in the computing network,

wherein ~~the computer-readable program code that is configured to determine~~ determining one or more network locations comprises ~~computer-readable program code that is configured to determine~~ determining one or more

network locations where the selected web service is deployed in the computing network,

wherein ~~the computer-readable program code that is configured to~~ effecting a dynamic undeployment comprises ~~computer-readable program code that is configured to~~ effecting a dynamic undeployment by programmatically removing the selected web service from one or more selected ones of the network locations in the computing network, and

wherein the undeployment trigger is based upon usage of the selected service at the network locations, and wherein the usage is an average number of client requests for the selected service within a predetermined time interval;

~~computer-readable program code that is configured to~~ sending the undeployment trigger to all of the network locations;

~~computer-readable program code that is configured to~~ shutting down the selected service at the network locations, responsive to receiving the undeployment trigger, and removing executed code which implements the selected service from a run-time environment of each network location;

~~computer-readable program code that is configured to~~ shutting down the selected service at the origin server responsive to receiving the undeployment trigger, and removing executed code which implements the selected service from a run-time environment of the origin server; and

~~computer-readable program code that is configured to make~~ making the selected service unlocatable in the computing network.

57. (currently amended) A computer program product for dynamically undeploying services in a computing network, the computer program product ~~embodied~~ stored on one or more computer-readable storage media ~~and~~ that when executed perform the steps comprising:

    ~~computer-readable program code that is configured to receive~~ receiving an undeployment trigger for a selected service;

    ~~computer-readable program code that is configured to determine~~ determining one or more network locations where the selected service is deployed responsive to receiving the undeployment trigger;

    ~~computer-readable program code that is configured to~~ effecting a dynamic undeployment by programmatically removing the selected service from one or more selected ones of the network locations responsive to receiving the undeployment trigger,

    wherein services comprise web services,

    ~~wherein the computer-readable program code that is configured to receive~~ wherein receiving an undeployment trigger comprises ~~computer-readable program code that is configured to receive~~ receiving an undeployment trigger for a selected web service in the computing network,

    wherein ~~the computer-readable program code that is configured to determine~~ determining one or more network locations comprises ~~computer-readable program code that is configured to determine~~ determining one or more network locations where the selected web service is deployed in the computing network,

wherein ~~the computer-readable program code that is configured to~~ effect<u>ing</u> a dynamic undeployment comprises ~~computer-readable program code that is configured to~~ effecting a dynamic undeployment by programmatically removing the selected web service from one or more selected ones of the network locations in the computing network, and

wherein the undeployment trigger is an undeployment request issued by an origin server from which the selected service was initially deployed, wherein the undeployment trigger is based upon usage of the selected service at the network locations, and wherein the usage is an average number of client requests for the selected service within a predetermined time interval;

~~computer-readable program code that is configured to~~ send<u>ing</u> the undeployment request to all of the network locations;

~~computer-readable program code that is configured to~~ shut<u>ting</u> down the selected service at the network locations, responsive to receiving the undeptoyment trigger, and removing executed code which implements the selected service from a run-time environment of each network location;

~~computer-readable program code that is configured to~~ shut<u>ting</u> down the selected service at the origin server responsive to receiving the undeployment trigger, and removing executed code which implements the selected service from a run-time environment of the origin server; and

~~computer-readable program code that is configured to make~~ <u>making</u> the selected service unlocatable in the computing network.